

217/782-2113

LIFETIME OPERATING PERMIT -- REVISED -- NSPS SOURCE

PERMITTEE

Archer Daniels Midland Company (ADM)
Attn: Amy L. Clyde
4666 Faries Parkway
Decatur, Illinois 62526

Application No.: 72110590

I.D. No.: 021816AAB

Applicant's Designation:

Date Received: November 15, 2002

Subject: Grain Elevator

Date Issued:

Expiration Date: See Condition 1.

Location: North State Route 48, Taylorville

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

EU-1 - Dump Pit #1/Conveying (includes No. 1 Leg)
CE-1 - Dump Pit #1 Baghouse (Controls EU-1)
EU-2 - Dump Pit #2/Conveying
CE-2 - Dump Pit #2 Baghouse (Controls EU-2)
EU-3 - Dump Pit #3/Rail Receiving
EU-4 - Conveying from Dump Pit #3/Rail Receiving
CE-3 - Dump Pit #3 Conveying Baghouse (Controls EU-4)
EU-5 - Grain Storage Tank
EU-6 - Grain Storage Bins
CE-4 - Grain Storage Bins Baghouse (Controls EU-6)
EU-9 - Grain Storage
CE-6 - Second Floor Baghouse (Controls EU-9)
EU-17 - Meal Storage (K-Storage)
CE-15 - Meal Storage Baghouse (Controls EU-17)
EU-21 - Hull/Pellet Storage
EU-22 - Truck Loadout
CE-18 - Truck Loadout Baghouse (Controls EU-21 & 22)
EU-23 - Rail Loadout
CE-19 - Rail Loadout Baghouse (Controls EU-23)

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
- 2a. This grain elevator is subject to a New Source Performance Standard (NSPS) for Grain Elevators, 40 CFR 60, Subparts A and DD. The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

- b. At all times the Permittee shall also to the extent practicable, maintain and operate the grain elevator, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 3. The Permittee shall obtain appropriate construction permit for any future construction of emission units or air pollution control equipment and also request revision of this permit unless such emission unit is exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146.
- 4a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible by an observer looking generally toward the Zenith (that is, looking at the sky directly overhead) from a point beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
- b. The Permittee shall implement required housekeeping practices and maintain a housekeeping check list for the grain elevator, pursuant to 35 Ill. Adm. Code 212.461(b). This checklist shall contain the applicable housekeeping practices described in the attached "Minimum Recommendations for Housekeeping Practices for Grain Handling Facilities."
- c. The Permittee shall operate the facility in such a way that the opacity does not exceed the limits specified in 35 Ill. Adm. Code 212.123.
- 5a.
 - i. Grain receiving in all dump pits shall be conducted in accordance with good operating practices to minimize particulate matter emissions.
 - ii. Each dump pit shall be inspected for proper operation while receiving is occurring, at least once each week (Monday through Sunday) when grain and dry bulk material is received.
- b. Grain transfer within the elevator (internal transfer), and any grain cleaning shall be conducted without visible emissions to the atmosphere, pursuant to 35 Ill. Adm. Code 212.462(a)(1), 212.462(c)(1).
 - i. Air contaminants collected from internal transfer operations shall be conveyed through air pollution control equipment rated not less than 98% by weight prior to release into the atmosphere, pursuant to 212.462(c)(3).
- e.
 - i. Grain load-out by truck or hopper car shall be conducted with sleeves extending to within at least 6 inches below the sides of the receiving vehicle except for topping off per 35 Ill. Adm. Code 212.461(d)(1).
 - ii. Grain load-out sleeves shall be inspected for proper operation while load-out is occurring, at least once each week when grain load-out is performed.

- 6a. The amount of grain handling shall not exceed the following limits:
 - i. The amount of grain received that is unloaded in the dump pit areas shall not exceed 12,000,000 bushel/year (10M bushel straight or hopper truck, 2M bushel railcar).
 - ii. The amount of grain transferred shall not exceed 37,200,000 bushel/year.
 - iii. The amount of grain shipped by truck or railcar shall not exceed 12,000,000 bushel/year.
- b. Emissions of particulate matter and PM₁₀ from the source shall not exceed 2.33 tons/year and 0.84 tons/year, respectively.
- c. Compliance with annual limits shall be determined on a monthly basis from a running total of monthly data, that is, the current month plus the preceding 11 months.
- 7. This permit is issued based on the referenced facility not processing soy bean oil. Any deviation from this shall require a revised operating permit.
- 8a. The Permittee shall maintain records of the following items for the grain elevator:
 - i. Records of housekeeping check lists completed by the elevator manager.
- b. The Permittee shall maintain monthly records of the following items for the source (running total):
 - i. Total grain received, bushels/month and bushels/year.
 - ii. Total grain shipped, bushels/month and bushels/year (running total).
- c. The Permittee shall maintain records for any deviation or exceedance from the requirements of this permit, as determined by the above records or by other means, with date, time, duration, description, corrective action, and measures to prevent future reoccurrences.
- d. The Permittee shall maintain records of any repairs or maintenance to the grain elevator as related to emissions of particulate matter including repairs to the dryer enclosure or sheeting or associated cyclone or filter, repair to enclosure on internal transfer, and replacement of load-out sleeves, with date and description of activity.
- e. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

9. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
10. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

11. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:
 - a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or
 - d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

It should be noted that during the review of this application it was determined that your source's potential to emit PM_{10} is less than the major source triggering level of 100 tons/year. Therefore, a permit required by Section 39.5 of the Illinois Environmental Protection Act is no longer required for this source.

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If you have any questions concerning this letter, please contact a Mike Dragovich at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:MJD:psj

cc: Region 2

Attachment A - Emissions Summary

This attachment provides the Illinois EPA's evaluation of the maximum emission of a small country elevator operating in compliance with the requirements of this permit. For the purpose of this evaluation, the Illinois EPA used the annual operating scenario which results in maximum emissions. This is receiving 12,000,000 bushels of grain by existing dump pits with control measures for a total 12,000,000 bushels for receiving of grain. Actual emissions from a small country grain elevator will be less than predicted for this operating scenario to the extent that less grain is handled at an elevator, control measures are used for receiving grain, and other control measures are more effective than required by rule.

Emission Source

Grain Elevator

<u>Activity</u>	Grain Throughput (MBu/Yr)	Emission Factor (Lb/Ton)		Control Factor (%)	Emissions (Tons/Year)	
		<u>PM</u>	<u>PM₁₀</u>		<u>PM</u>	<u>PM₁₀</u>
Receiving:						
Truck*	10	0.18	0.059	98	0.5	0.17
Railcar	2	0.035	0.0078	0	0.90	0.22
Shipping:						
Truck/Rail	12	0.086	0.029	98	0.29	0.10
Misc.:						
Transfer/Conveying	37.2	0.061	0.034	98	<u>0.64</u>	<u>0.35</u>
				Totals	2.33	0.84

* Truck includes both hopper and straight.

MJD:psj